MARE PLASTICUM Art helps science to raise awareness



Margarita Cimadevila & Wolfgang Trettnak



Book presentation: Mare Plasticum - The Plastic Sea 17th September 2020

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Margarita Cimadevila

Galicia 🔚

Spain



Wolfgang Trettnak





A Coruña ____

Sada

Atlantic Ocean

www.google.es/maps

1200 km of coast line

300 km of beaches ...





... more than 700!

Very clean in summer!











2. Where does it come from?



Ropes









Trap boxes





Aquaculture

Net bags





Agglomerations



Gloves





Urban and domestic litter









Toys

Packaging





Objects of daily life







Sanitary products



3. Which problems do they

create?

Damages to the habitat





Entanglement





Photo: Chris Jordan (via U.S. Fish and Wildlife Service Headquarters) / CC BY 2.0

Toxicity





Mortality







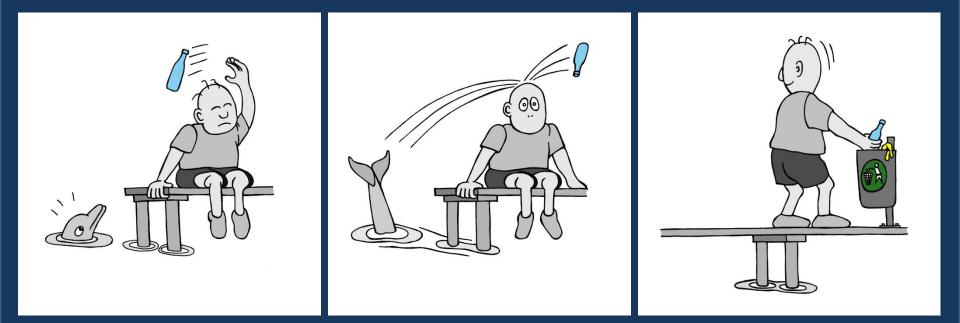
Invasive species

Microplastics





How to make known these problems?



The answer was to created the eco-exhibition:

MARE PLASTICUM

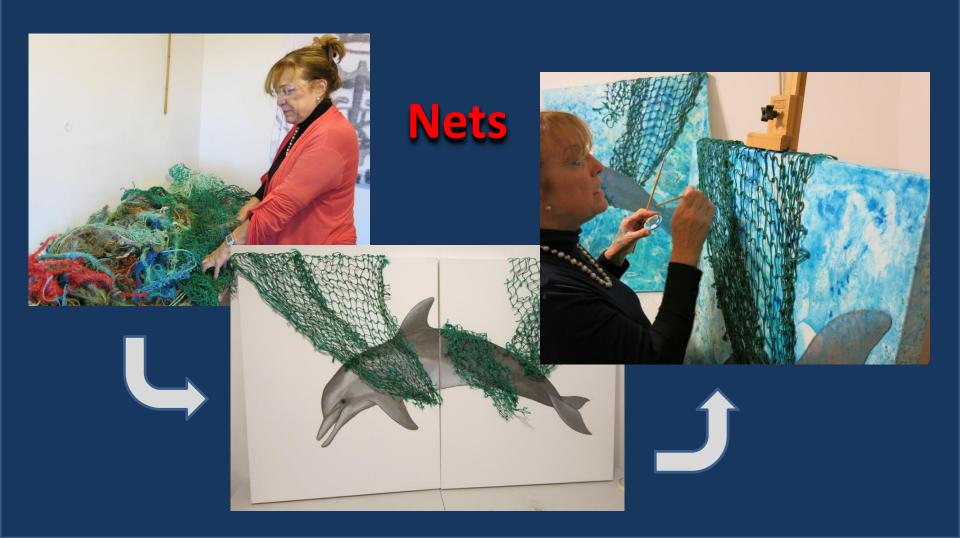
Art and Science for the Environment



Recycling & Reuse

We use plastic marine litter, which we collect on

the beaches:



The entangled dolphin





The marine shoe shop







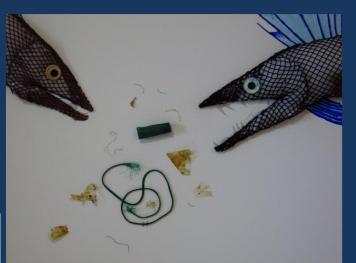




The submarine garden









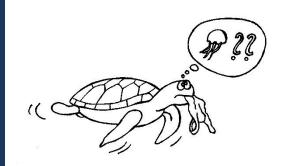


Alepisaurus ferox

111111111111









Jellyfish or plastic bag?









Science & Art

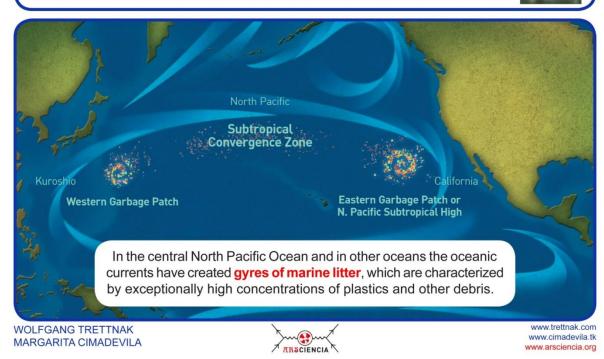
- Investigation (start 2011!)
- Documentation (photos)
- Contacts with scientists Basis of:
- Art work
- Posters
- Videos
- Presentations
- Workshops



Informative sheets

BELOW THE GREAT GARBAGE PATCH

Marine debris and mixed technique on canvas; 80 x 100 cm; 2012



Below the Great Garbage Patch

Target audience:

All kind of people, specially young people





CERN 2015





International Conference OUR OCEAN Malta 2017

Launch of the China No Plastic in Nature Action Network Beijing 2019





Environmental Conference CONAMA Spain 2016

Conferences

Plastic waste enters the ocean and is distributed around the world by global currents. Marine animals confuse the plastic debris with food or plankton and ingest it, with devastating effects on the marine life. Other dangers arise from entanglement with marine plastic litter or from species invading new ecosystems by using plastic as a float.

It is our duty to protect our oceans with their huge biodiversity and their rich food and other resources. One important way is by avoiding the pollution of the seas, especially by plastic materials. An overview on the issue and on scientific results and ongoing investigations on the subject will be presented.



Conference

26 May 2015 at 18:30 CERN Meyrin, Main Building, Council Chamber

Wolfgang Trettnak



Wolfgang Tretnak received a PhD in Chemistry from the University of Graz (Austria) and worked in applied scientific research on sensors and biosensors for many years before becoming a free-lance artist. His work links science with art and in the past years he has been concerned especially with the threats to marine life.

Plastic waste is TODAY a worldwide problem.

CERN 2015

Educational activities

- European Maritime Day
- Congresses for Teachers
- Science & Art Courses
- Didactic materials
- Presentations at schools
- Art works at school
- Beach cleaning
- Competition Science on Stage



European Maritime Day 2019 More than 1000 pupils involved!



Arte y Ciencia contra el plástico marino



MARE PLASTICUM EXPOSICIÓN DE ECO-ARTE

Margarita Cimadevila & Wolfgang Trettnak



European Maritime Day in My Country 2019

Beach cleaning actions IV Encontro Internacional do Lixo Mariño October 2019





SCIENCE ON STAGE SPAIN 2015 1st Prize in Sustainability

"For its originality in showing an urgent problem in a creative manner, but without losing sight of scientific severity..."

Spreading

- Websites, social media and networks
- TV, radio, print media
- Print materials: flyers, posters ...

... and the book:

Marilena Streit-Bianchi Margarita Cimadevila Wolfgang Trettnak Editors

Mare Plasticum – The Plastic Sea

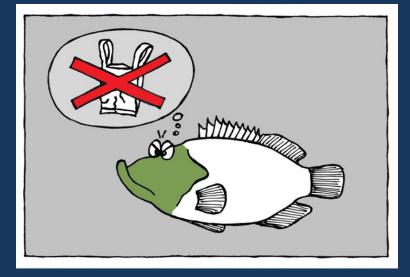
Combatting Plastic Pollution Through Science and Art





CONCLUSION

It is time to act!





Margarita Cimadevila Wo www.cimadevila.tk w

Wolfgang Trettnak www.trettnak.com

Curator: Marilena Streit-Bianchi

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